5 b Prepared for

PROTECO

Peñuelas, Puerto Rico

2001 ANNUAL INSPECTION REPORT RCRA UNITS FORMER PROTECO FACILITY PEÑUELAS, PUERTO RICO

Prepared by

LAW Environmental - Caribe

1570 Américo Miranda Avenue Río Piedras, Puerto Rico 00921

Project Number 12000-1-0141

CEPO-DIRECTOR OFFICE

U.S. ENV. PROT. AGENCY

November 13, 2001

New . 5/10/62



May 1, 2002

Mr. Angel Salgado
CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION
Centro Europa Building
1492 Ponce Deleon Avenue, Suite 417
San Juan, Puerto Rico 00907-4127

Subject:

PROTECO ID# PRD091018622 2001 Annual Inspection Report

Dear Mr. Salgado:

Law Environmental – Caribe in association with Law Engineering and Environmental Services, Inc. (LAW) is pleased to submit our 2001 Annual Inspection Report for the former PROTECO facility, near Peñuelas, Puerto Rico. Under the direction of Mr. Glenn Coffman, P.E., Mr. Steven Youngs performed the annual inspection on November 11, 2001. Ms. Ana del Pilar, an agent of PROTECO, performed the quarterly inspections, documented the daily rainfall events, and documented the removal of leachate from the CAMU. These inspections and documentation have been included as appendices to this 2001 Annual Inspection Report.

If you have any questions, please feel free to give us a call at 770-421-3400.

Sincerely,

Glenn N. Coffman, P.E., Partner

Law Engineering - Caribe

Steven R. Youngs, P

Law Engineering and Environmental Services, Inc.

2001 ANNUAL INSPECTION REPORT

PROTECO Former Facility Peñuelas, Puerto Rico

Prepared for:
PROTECO
20 Washington Street
Cond. Caribbea Apt. PHC
San Juan, Puerto Rico 00907

Prepared by: Law Engineering – Caribe 1570 Américo Miranda Avenue Río Piedras, Puerto Rico 00921

In Association With

Law Engineering and Environmental Services, Inc. 3200 Town Point Drive, Suite 100 Kennesaw, Georgia 30144

November 13, 2001

Developed and Submitted By:	
This work was prepared under the guidance of a Partner and performed by Steven Youngs. INGENIERO Glenn N. Coffman, P.E., PalfaernCIADO	r of Law Engineering – Caribe, Glenn Coffman Steven R. Youngs, P.G.
Law Engineering — Caribe	Law Engineering and Environmental Services, Inc.
100000	bervices, inc.

PROTECO Inspection and Maintenance Report

	CONDITION ¹	1	COMMENTS
INSPECTION ITEM	NA MN IA	PHOTO ID	(Indicate Locations on Plan Sheet)

SECURITY CONTROL		
Condition of Fence and Gates	1	PROTECO was in the process of relocating the gate for access to Unit 9. Fencing surrounding the units is in good condition. Gates were found locked and in good condition.
Condition of Signs	1	Warning signs were visible and securely attached to fence.
Other	1	Waste Management, who is operating a industrial waste landfill adjacent to the units, has installed a new controlled entrance gate. The gate is manned by a security guard during operational hours. At all other times, the gate is closed and secured by locks.
EROSION CONTROLS/DAMAGE		
Perimeter Ditches	✓	The maintenance recommended in the 2000 Annual Inspection Report has been made and no further erosion was observed. All perimeter ditches were functioning as designed. The perimeter ditch north of Unit 1 and south of Unit 2/3 is in good condition. The perimeter ditch north of Unit 2/3 is in good condition. The perimeter ditch east of Units 13, 17 and 10/11 and continuing north and west of Unit 9 is in good condition. The perimeter ditch east of Unit 12/16 is in good condition. The southeast corner of this perimeter ditch has been repaired as recommended in the 2000 Annual Inspection Report.
Sediment Traps	1	A sediment trap has been constructed as recommended in the 2000 Annual Inspection Report before the headwall of the four culverts crossing under the access road adjacent to Unit 9. The sediment trap is functioning as intended.
Sediment Build-up	1	The sediment has been cleaned as recommended in the 2000 Annual Inspection Report from the four culverts crossing under the access road adjacent to Unit 9. The perimeter ditches have been maintained and no accumulation of sediment was observed.
Culvert End-Walls	1	Good condition.
Brush/Trees/Debris	1	None observed.

PROTECO Inspection and Maintenance Report

	CO	NDITI	ON ¹		COMMENTS
INSPECTION ITEM	NA	MN	IA	PHOTO ID	(Indicate Locations on Plan Sheet)
Ponding or Wet Areas	1				No ponding or evidence of ponding was observed either on the units or in the perimeter ditches.
Riprap	1				Good condition.
Other					
FINAL COVER CONDITION					
Undesirable Vegetation	1				No woody plants were observed.
Erosion	1				Units 1, 5, 9, 10/11, 13, 12/16 and 17 were in good condition. Unit 2/3 shows some erosion problems.
Drainage	1				All Units are draining well with positive surface flow runoff.
Cracks	1				None observed.
Depressions/Ponded Water	1				None observed.
Settlement	1				None observed. See Appendix A for annual survey information.
Surface Armor		1			Appeared that recent maintenance had been performed to erosion features on Unit 2/3 (recent maintenance activities with the placement of soil). Vegetation for all Units 1, 5, 9, 10/11, 12/16, 13 & 17 were generally in good condition. Sparse to small bare areas were limited in extent and were beginning to fill in with
					vegetation.
Burrows	1				None observed.
Other	-				
GAS MANAGEMENT SYSTEM					
Condition of Gas Vents	1				Some of the gas vents were noted to be leaning which may be a result of maintenance (mowing) activities. Care should be taken when performing any activity around these vents. Otherwise, the landfill gas vents are in good condition. No landfill gas was observed from any of the gas vents.

PROTECO Inspection and Maintenance Report

		11	ıspe	ection ar	id Maintenance Report
	CO	NDIT	ON ¹		COMMENTS
INSPECTION ITEM	NA	MN	IA	PHOTO ID	(Indicate Locations on Plan Sheet)
Other					
CAMU – LEACHATE COLLECTION SYSTEM					
Depth of Leachate					Not measured.
Other					
BENCHMARKS					
Condition		1			Benchmark 1 remains in good condition.
Elevation Surveyed					
Other					
OTHER OBSERVATIONS					
Survey Plat	1				No up-date to survey plat is needed. No on-going changes in the configuration of the terrain and no alterations to the surface water drainage patterns were observed.
Unit 9 (CAMU)					
Sediment Basin	1				The sediment basin is being maintained by Waste Management as part of their on-going landfill operations and in accordance with their approved Puerto Rico Environmental Quality Board permit.
Precipitation	1				See Appendix B for monthly records.

DATE: November 13, 2001

PROTECO Inspection and Maintenance Report

MAINTENANCE OR REPAIRS REQUIRED TO BE CONDUCTED DATE REINSPECTED ITEM BY COMPLETED DATE/INTL.

			(print)	(signature)
DATE OF INSPECTION:	November 13, 2001	INSPECTOR:	Steven R. Youngs	Moun R Source
Unit 17	No maintenance or repairs required.			0 0
Unit 13	No maintenance or repairs required.			
Unit 12/16	No maintenance or repairs required.			
Unit 10/11	No maintenance or repairs required.			
Unit 9	No maintenance or repairs required.			
Unit 5	No maintenance or repairs required.			
Unit 2/3	No maintenance or repairs required.			
Unit 1	No maintenance or repairs required.			

COMPANY: Law Engineering and Environmental Services,

Inc.

APPENDIX A SURVEY DATA

Survey Data for Settlement

Coor	dinates	2001 Elevation	2002 Elevation	Annual Difference
66,851.61	407,225.50	327.84	327.68	0.16
66,761.86	407,209.80	325.54	325.59	(0.05)
66,778.94	407,406.72	329.33	329.32	0.01
66,728.33	407,397.42	326.77	326.75	0.02
66,525.58	407,254.89	321.38	321.39	(0.01)
66,460.28	407,204.55	320.09	320.09	0.00
66,194.50	407,092.14	336.38	336.37	0.01
66,147.62	407,056.21	335.98	335.99	(0.01)
66,291.28	406,921.44	299.69	299.87	(0.18)
66,382.11	406,965.51	302.33	302.47	(0.14)
66,460.97	407,001.70	303.89	304.00	(0.11)
66,546.79	407,049.48	304.88	304.88	0.00
68,069.92	407,223.42	408.00	408.07	(0.07)
68,079.11	407,286.62	408.70	408.69	0.01
68,078.74	407,286.93	408.52	ND	ND
68,086.63	407,349.49	407.79	407.80	(0.01)
67,920.25	406,999.48	381.17	381.20	(0.03)
67,947.87	406,960.09	382.51	382.51	0.00
67,699.45	407,075.43	358.80	358.79	0.01
67,687.80	407,131.30	359.33	359.33	0.00
67,701.82	407,185.77	361.57	361.56	0.01

ND - No Data

APPENDIX B ANNUAL RAINAFALL DATA

2001

MONTH:	Janua	ary											,	
DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Leachate Removal								Ì						
(hours/approx. gallons)		\$6" L S. H. H. A. P.		Soften Set Val	(*** 1:-3-4	12 - 10 - 10	THE DOT PER	COTHER PO	建筑 建筑 小板板 數 6	महत्त्वा के के स्प	qeerikaas	VME CTEAR	Section 19	an good far
Rainfall (inches)														

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Landate Demoval			7.10	4H	6 H	turnettee.	TO ENGLISHE	4H	5 H	16.04 5.00	4H	411	12	
Leachate Removal (hours/approx. gallons)			- 18 92 1-	529	78g	en sylvatik	कारच स्थापन	529	659	mentare deal	52g	529	anvenos	Q10-37694)-
Rainfall (inches)	1 44 F (4 44 E)	M V V V	1,1000	1000		4.77.10	4012-10	P. P	2, 1, 1, 2, 4, 1	3. 41. 7. 6. 8.				

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)	To be the third	4 H 52g	4H 52g
Rainfall (inches)	0.35	in a such	- J.

MONTH:	Febru	ary								10	- 11	13	12	14
DAY:	1	2	3	4	5	6	7	8	9	10	11	12	West to the	Section of
Maryell To the Mary Law 1994	12 18 V	4H	Tar Earlie	**	6 H	4 H	411				V.	вн	SH	
Leachate Removal (hours/approx. gallons)		529			78g	5Zg	529	act duality	access to the second		ensurer e	659	65g	Advise street
COMPANIES OF THE STATE OF THE S	1 5 Sept. 18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	可可能定生	30 - C47	9	A. A. J.	7.00 31 - 42	MINES T WHEN ELEN						
Rainfall (inches)	0.20					<u> </u>							L	

DAV.	15	16	17	18	19	20	21	22	23	24	25	26	27	28
DAY:	4H	4H	englise is	S. 12 Opt. 1	C) (\$1.905)	5 H	5 H	5 H	**************************************	Result (Inter-		4H	411	зн
Leachate Removal (hours/approx. gallons)	-	52a				659	(45g	380				52g	529	399
(Hours/approx. galloris/	1	- J.	20045-0	1	ille an e	P	FURTHER PERSON	0.20	# 17 H. SHE	215	4 may 0.00 124	1	1	3, 13,
Rainfall (inches)								0.20	10.45	0.00		L	L	-

DAY:	29	30	31
California de la composición del composición de la composición de	\$ 190 Yes	As a series	ust open
Leachate Removal			
(hours/approx. gallons)		and the second	January Japan
Rainfall (inches)			

MONTH:	March													
DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
SZAGO (1550) AND STATE OF STAT	5H	5H		1.00	411	4 H	3H	ore, seed it shall	FAMILIAN SECTION	5-4-15-1, (pie-25)	0. K. 1942-10-	2 H	44	4H
Leachate Removal (hours/approx. gallons)		65a			529	529	399					.26q	52g	52g
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Rainfall (inches)	0.22											l	L	L

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
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	3H				6H	6H	44	HE					511	3 H
Leachate Removal (hours/approx. gallons)					.78a	78a	52a	390					374.5	226,5
abdress we will be the	227 2 46-7		992425.054	597257 ARTS	1 J	cales and	SAN JOW	STAND DEE	10年6年2月	Same com	28555年中央中	计算体与分类数	annews the	學的學術學
Rainfall (inches)								0.53	0.12					THE PARTY OF THE

DAY:	29	30	31
AND THE PERSON AND THE PERSON AND A PERSON A	4H	4H	and the second
Leachate Removal	9	3.5	
(hours/approx. gallons)	302	302	Q
Rainfall (inches)	A C 1901 S OF S		2.1

3/22/01-2 Submergible pumps.

PROTECO MONTH:

MONTH: April

MORTH.	APIII				-						1			
DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Leachate Removal (hours/approx. gallons)		151a	1519						3024	15 i g	1519			
Rainfall (inches)		, J	9.00			,*************************************	O Suntan	- Nathabay	0.35	04. st 5	1. H. J. J 1.	1000	1. 1. 1. 1.	119 1145

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Leachate Removal (hours/approx. gallons)		,					Antonio III	i i i je kara						
Rainfall (inches)	45	- 1 11304	1,00			C.VII1 1 1 1		and treeffe and the	0.65	100000000000000000000000000000000000000		, , , , , , , , , , , , , , , , , , , ,	eset on transport	

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)			
Rainfall (inches)			

MONTH:	May													
DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Leachate Removal (hours/approx. gallons)			*1											
CONTROL OF THE STATE OF THE STATE OF	\$21.25 Ond	120 547.3		.23	11 - 14 - 9	F 4 1975	VI. "YAN	Mark and Salation		Carlo Tare	17 17	6 to 1 1 to 2 to 3 to		CHARLEST
Rainfall (inches)							7.0		0:43	<u> </u>	0.33	İ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		L

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Website, Committee in	2.575		7.172.18	6 F 78 38	enegy altere	207203	SAPUL S	45",1"-3	And of most	rate to the		(NASSINITE	THE WATER	Art Supple
Leachate Removal (hours/approx. gallons)									7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					
Rainfall (inches)	***************************************	SS (A) 36 F		6.1	045	2.44		240,000,000		allo Moneta				

= 1	2-7	 ~ .
		
Leachate Removal (hours/approx. gallons)		*****
Rainfall (inches)	0.50	

MONTH:	June									40			13	14
DAY:	1	2	3	4	5	6		8	9	10	11	12	13	14
Mary State Committee of the Committee of	100000	(72.8 7.7 No.)	ACC ACCOUNT	1000	Cartain (C. 12)	A	FIRE CIPE SHE	Man F. (In Section)						
Leachate Removal (hours/approx. gallons)	/	/	/	/	/	/		/	30.00.00.00.00	/	/	real new	100000000000000000000000000000000000000	Np. (poletic -
Rainfall (Inches)	TAN IN IN	11 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	4.00	agri, et aller gr	answer spires	Man manage	_							

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Leachate Removal (hours/approx. gallons)	/	/		/ (2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		/	/	/	easpangers	/	/	/ Sec. 200 se	/	/
Rainfall (inches)	1.45			0.44										

13

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)	/	/	/
Rainfall (inches)		33 (P)(X)(4	. S.M. (1995)

MONTH:	July													
DAY:	1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Leachate Removal (hours/approx. gallons)	/		/	/	/	/		/	/	1	/	1	/	/
Rainfall (inches)	0	0	D	0	0	0	0	σ	0	0	0	0	0	0

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
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Leachate Removal (hours/approx. gallons)	/	/	/	/	/	/	/	1	/	/	/	/	1	/
Rainfall (inches)	P	0	0	0	0	O	0	0	0.65	0	0	0	0	0

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)	/	/	/
Rainfall (inches)	0	0	0

2	3			August													
	3	4	5	6	7	8	9	10	11	12	13	14					
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DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Leachate Removal (hours/approx. gallons)	/	/		/	/	/	/						-030,00	
Rainfall (inches)	0	0	0	0	0	0	0	0.70	0	0.62	0	0	4.40	0

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)		/	/
Rainfall (inches)	0	0	0

MONTH:	Septe	mber			0	10	11	12	13	14				
DAY:	1	2	3	4	5	<u> </u>	N. M. C. C.	No. 10.15-3 10.2	enden zen	ragonija Artsan	Cutting desires	the emission	managar peter	(* *. * * *).
Leachate Removal (hours/approx. gallons)	/	1	/	/	/	ø	/	/	/	/	/	/		/
(nours/approx. galloris)		Trees.	77.PRC 18	0	sizy s is	0	0	0	0	0	0	0.40	0	Q'
Rainfall (inches)	0	0	0	0	0_	0	0		0			0.10		_

DAY:	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Leachate Removal (hours/approx. gallons)		/	/	/	/	/	/	/	/	1	/	/	/	/
(nours/approx. ganons)	C + 4	555 ± 16	1.000	11:44	F1 - 1 - 1 1	3 .	Montro Fr		ALL A Lifer	0	0	0	0	0
Rainfall (inches)	0	0	0	0	0	0	0_	0	0		V	L		

DAY:	29	30	31
Leachate Removal (hours/approx. gallons)	/	/	/
Rainfall (inches)	0	0	O

APPENDIX C PHOTOGRAPHS



View of Unit 5 Looking Southeast from Unit 2/3



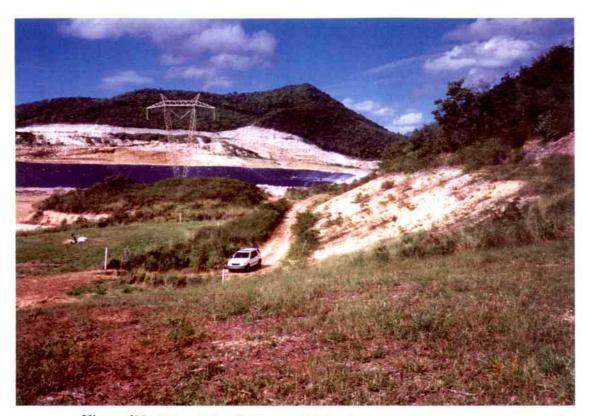
View of Unit 1 Looking Southwest from Unit 2/3



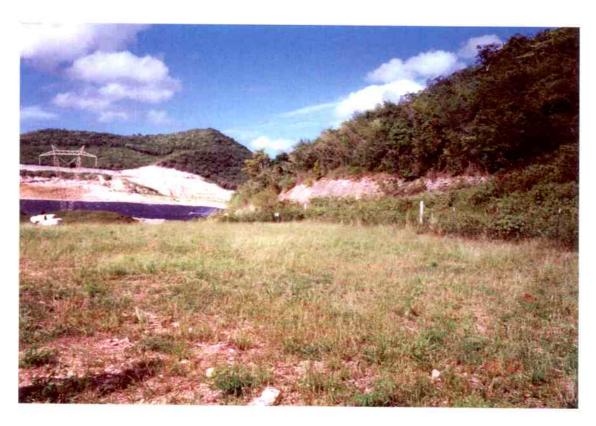
View of Top of Units 9 & 10/11 Looking West



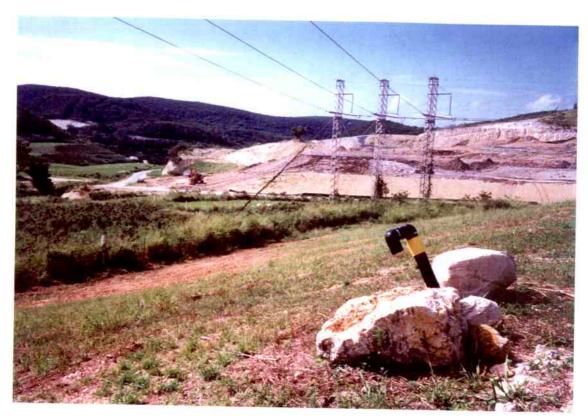
View of South Slope of Unit 2/3 Looking East from By-Pass Diversion Ditch



View of Unit 1 and South Slope of Unit 2/3 Looking Southwest



View of Top of Unit 2/3 Looking Southwest



View of East Slope of Unit 2/3 Looking Southeast



View of Recent Maintenance Activity on East Slope of Unit 2/3



View of By-Pass Diversion Ditch Between Units 1 and 2/3 Looking East



View of Top of Unit 1 and South Slope of Unit 2/3 Looking North



View of By-Pass Diversion Ditch Between Units 1 and 2/3 Looking East



View of Top of Unit 1 and South Slope of Unit 2/3 Looking North



View of Top of Unit 1 and South Slope of Units 2/3 Looking North



View of Top of Unit 1 Looking Northwest



View of Top and South Slope of Unit 1 Looking West



View of Unit 5 Looking Southeast from Unit 2/3



View of Fencing and Warning Signs



View of Recent Maintenance Activity on East Slope of Unit 2/3 Looking Northwest



View of Fencing and Warning Signs



View of Recent Maintenance Activity on East Slope of Unit 2/3 Looking Northwest



View of Units 1, 2/3 & 5 Looking Northwest



View of Top of Unit 10/11 Looking North



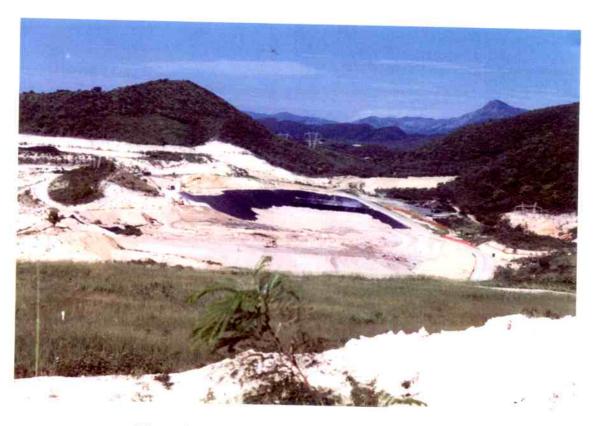
View of Top of Units 9 & 10/11 Looking North



View of Top of Units 9 & 10/11 Looking North from Unit 13



View of Top of Units 10/11 Looking Southeast



View of Top of Units 9 & 10/11 Looking West



View of Top of Units 9, 10/11 & 12/16 Looking Southwest



View of Vegetation on Unit 12/16



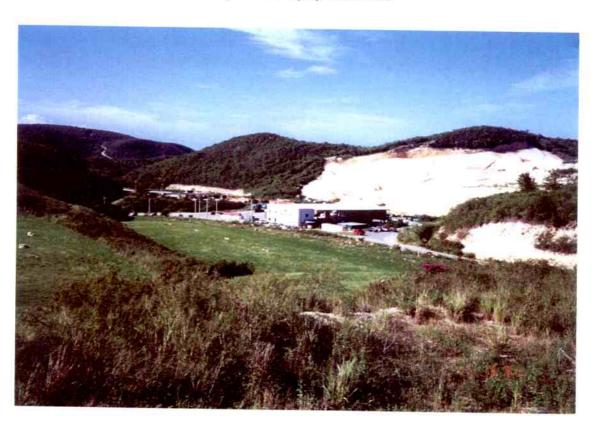
View of Unit 12/16 Looking South



View of Recent Maintenance Activity (Repair of Drainage Channel Southeast of Unit 12/16)



View of South Slop of Unit 12/16



View of Top of Unit 12/16 & Portion of Unit 13 Looking Southwest



View of Top of Unit 12/16 & Portion of Units 9 & 13 Looking Southwest



View of Top of Unit 13 Looking South



View of Top of Unit 13 Looking Southeast



View of Top of Units 9, 10/11 & 13 Looking North from Unit 17



View of Top of Units 13 & 17 Looking South



View of Top of Unit 17 Looking South



View of Top of Unit 17 Looking Southeast

APPENDIX D QUARTERLY Inspection REPORTS

	CONDITION1		COMMENTS
	NA M	IN IA	(Indicate Locations on Plan Sheet)
ECURITY CONTROL	\mathcal{A}		ALL FENCES ARE IN GOOD CONDITION. UNIT 9 HAVE A
ECURITY CONTROL			THE THE BEARS EXPRACTION OF
	-		THE LEACHATE IN THE UNIT, WARNING SIGNS ARE VISIBLE
			ALL THE DITCHES ARE WORKING AS DESIGN, THERE IS NO
ROSION CONTROLS/DAMAGE			ALL THE DICTIES ARE WORLING AS DESIGN
			DAMAGE OFFICED IN THE UNITS.
INAL COVER CONDITION			ALL THE FINAL COVERS OF THE UNITS ARE IN GOOD
			CONDITION. PROTECO STARTS THE MAINTENANCE OF THE UNITS ON JANUARY 16. ALL THE WOODY PLANTS WERE GRADICATED.
			UNITS ON JANUARY 16. ALL THE WOODY KINTS WELLE EXCADITATED,
			Die UNITS ARE TRANING WELL, Have is No caper, remagas: De
			PONDED WOTER OPHEROUSED.
GAS MANAGEMENT SYSTEM	1		ALL THE VENT PIPES ARE IN GOOD CONDITION. THERE IS
	+ +		NO DAMAGE OBSERVED IN THE VENT PIPES.
CAMU – LEACHATE			THE LEACHAR EXTRACTION IN UNIT 9 START ON JANUARE
COLLECTION SYSTEM	-		14 2001 THE CENTRIFICAL PUMP WAS CHANGE BY A SUMERGIBLE
	1-1		PUMP ON MARCH 22, 2001.
			PUMP ON PLANT
OTHER OBSERVATIONS	T 1		THE TOTAL PRECIPITATION IN THE FIRST QUARTETE WAS 1.87

^{&#}x27;NA, no action needed; MN, maintenance needed; IA, immediate attention needed

DATE: May 8, 2001

PROTECO

Inspection and Maintenance Report

INSPECTION ITEM	CONDITION		ON	COMMENTS		
INSTECTION TELE	NA MN IA		IA	(Indicate Locations on Plan Sheet)		
	r -					
EROSION CONTROLS/DAMAGE						
Perimeter Ditches	1			All perimeter ditches were functioning as designed. The main ditch between unit 1 and unit 2/3 is in good condition. The perimeter ditch north of unit 2/3 needs maintenance because of the erosion. The perimeter ditch east of units 17, 13 and 10/11 and continuing north and west of unit 9 is in good condition. The perimeter ditch west of units 9 and 12/16 is in good condition. The perimeter ditch east of unit 12/16 is in good condition, but it has erosion at the end of the channel that needs some maintenance.		
Sediment Traps	1					
Sediment Build-up		1		Theres is sediment in the entrance of the four corrugated metal pipe. Needs maintenance.		
Culvert End-Walls		1		The inlets of the four corrugated metal pipes were clean and there is no sediment. The outlet shows some sedimentation.		
Brush/Trees/Debris		1		Theres is some brush on the four corrugated metal pipes outlet. Needs maintenance.		
Ponding or Wet Areas	1			There no ponding found on the units or ditches.		
Riprap	1			Good condition.		
Other		1		Two of the four pipes are half full of sediment.		
FINAL COVER CONDITION						
Undesirable Vegetation	1			All the woody plants were eradicated and the others are less than one feet in height		
Erosion		1		Units 1, 5, 10/11, 13, 12/16 17 and 9 were in good condition. Units 2/3 south slope shows some erosion problems.		
Drainage	1			All units are draining well with positive surface flow runoff.		
Cracks	11			pione observed.		
Depressions/Ponded Water	1			None observed.		

¹ NA, no action needed; MN, maintenance needed; IA, immediate attention needed

CONDITION1

				PROTECO
		Ii	išįv	ection and Maintenance Report
INSPECTION ITEM	CONDITION			COMMENTS
	NA	MN	IA	(Indicate Locations on Plan Sheet)
	-			
Settlement	1			None observed.
Surface Armor	1			None observed
Burrows	1			None observed.
Other				
GAS MANAGEMENT SYSTEM				
Condition of Gas Vents	17			Gas vents are in good condition. No gas measured from any of the gas vents.
	+		-	Oas veins are in good condition. The gas measured from any of the gas veins.
Other	-			
CAMU – LEACHATE COLLECTION SYSTEM				
Depth of Leachate	1			On april 2001 was the last leachate extraction on unit 9. Aprox. 4000 gal. was extracted from the unit
Other				
BENCHMARKS				
Condition	1			Benchmark 1 remains and is in good condition.

OTHER OBSERVATIONS

Survey Plat

Unit 9 (CAMU)

Other

Elevation Surveyed

No up-date to survey plat is needed. No on-going changes in the configuration of the terrain and alterations to the surface water drainage patterns were observed.

¹ NA, no action needed; MN, maintenance needed; IA, immediate attention needed

DATE: May 8, 2001	
	PROTECO
	Inspection and Maintenance Report

	Inspection.			
	CONDITION	COMMENTS		
NSPECTION ITEM	NA MN IA	(Indicate Locations on Plan Sheet)		

INSPECTION ITEM				(Indicate Locations on Plan Sheet)			
	NA	MN	IA	(Indicate Exemples of the			
				ii . I. If II exerctions as part of their on-going lan			
Sediment Basin	1			The sediment basin is being maintained by the adjacent landfill operations as part of their on-going land operations and in accordance with their approved Puerto Rico Environmental Quality Board permit.			
				On May 7 was received 7 " of precipitation within 24 hours period.			
Precipitation	/			On May / was received / Or presign			
		+					
		1-					

NA, no action needed; MN, maintenance needed; IA, immediate attention needed

DATE: May 8, 2001

PROTECO

ITEM	Inspection and iviainte MAINTENANCE OR REPAIRS REQUIRED		DATE COMPLETED	REINSPECTED DATE/INTL.	
		PROTECO	T		
Unit 1	No maintenance or repairs required.		1	1 + 1 / 0	
Unit 2/3	Repair erosion on south slope and in the north ditch of the unit	PROTECO	June 2001	June 4,2001 Cir.	
11	No maintenance or repairs required.	PROTECO			
Unit 5	No maintenance or repairs required	PROTECO			
Unit 9	No maintenance or repairs required.	PROTECO		1 00	
Unit 10/11	Repair perimeter ditch at southeast corner of unit.	PROTECO	June 2001	June 4 Cits	
Unit 12/16	No maintenance or repairs required	PROTECO			
Unit 13	No maintenance or repairs required	PROTECO			
Unit 17	May 8,2001	INSPECTOR:	Ana Sabatier		
DATE OF INSPECTION:	[Viay 0,2001		Je Stole	(print) (signature)	

NA, no action needed; MN, maintenance needed; IA, immediate attention needed

Precipitation

co	NDITI	ON1	COMMENTS
NA	MN	IA	(Indicate Locations on Plan Sheet)
			FENCING SORROUNDING THE UNITS IS IN GOOD CONDITION WARNING
			SIGNS ARE VISIOUE. UNIT 9 HAVE A TEACH. ENTRANCE TOTAL THE
			SEE INSPECTION & MAINTENANCE REPORT MAY 8, 2001
		-	LI THE THERE ARE WORKING AS DESITED, ALL THE GOLDEN
			EROSION & SECRIMENTATION WARE FIXED BY JUNE 2001
			AN THE UNITS FINGE COVERS ARE IN GOOD COND. ALL UNITS ARE
	-	-	PRAINING PROPERTY. NO CHACK DEPRESSION OF PONDED WATER
			SEE INSP. & MAINTENANCE REPORT HAY 8, 2001
			ALL THE VENT PIPES ARE IN GOOD GNDITION.
			ALL THE VENT THES THE
	-	+-	A CONTRACTOR DE ADDITION
Ì			THE LEACHATE EXTRACTION ON UNIT 9 ENDED BY APPLLIA
	50.5		NA MIN IA

NA, no action needed; MN, maintenance needed; IA, immediate attention needed

	CO	NDITI	ON ¹	COMMENTS
	NA	MN	IA	(Indicate Locations on Plan Sheet)
ECURITY CONTROL				FENCING SURROUNDING THE UNITS IS IN GOOD CONDITION
				WARNING SIGS WERE VISIBLE. THERE IS A TEND. ENTRANCE IN THE
ROSION CONTROLS/DAMAGE				TOWNER PROPORT OF AUGUST 27,2001
				THERE'S NO OBSERVED EROSION PROBLEMS IN THE VN:TS AFTER 9. 40" OF PAIN + AU THE PARIMETER DIFFERES
				WORK AS PESIEN
INAL COVER CONDITION				SEE INSP REPORT OF AUGUST 27, 2001 No observed DAMAGE IN THE FINAL COVER, THERE NO CRACKS SETTLEMEN OF PONDED WATERZ OBSERVED!
GAS MANAGEMENT SYSTEM	-			ALL THE VENT PIPES ARE IN GOOD COND. NO GAS MEASURED FROM ANY OF THE GAS VENT.
CAMU – LEACHATE	-		_	NO LEACHAGE WERE EXTRACTED FROM UNIT 9

NA, no action needed; MN, maintenance needed; IA, immediate attention needed

DATE: August 27,2001

PROTECO

INSPECTION ITEM	CONDITION,		ON,	COMMENTS
Mor De Trouve	NA	MN	IA	(Indicate Locations on Plan Sheet)
ROSION CONTROLS/DAMAGE				
Perimeter Ditches	1			All perimeter ditches are working as design.
Sediment Traps	1			Theres were no sediment traps proposed or constructed during closure manintenance.
Sediment Build-up		1		Sedimient build up are in the four 18" corrugated metal pipes inlet.
Culvert End-Walls	1	1		
Brush/Trees/Debris	-	1		Theres some brush and small trees in the four 18" corrugated metal pipes inlet.
Ponding or Wet Areas	1	-	1	There is not ponding or wet area in the units.
Riprap	1		1	
Other	-	1		Erosion in the slope east to unit 13, caused by the rain water that the channel manage.
FINAL COVER CONDITION	+			
Undesirable Vegetation	1	-	 	There is no woody plants observed.
Erosion	+	1	 	The south slope of Unit 2/3 shows some erosion and in the northwest side of unit 9.
Drainage	1		-	Good Condition
Cracks	1	-	+	None Observed
Depressions/Ponded Water	1	-	1	None Observed
Settlement	1	-	1	None Observed
Surface Armor	1		1	Good Condition
	1	+	+	None Observed
Burrows	+-	+	+	
()ther			-	

^{&#}x27;NA, no action needed; MN, maintenance needed; IA, immediate attention needed

DATE: August 27,2001

PROTECO

INSPECTION ITEM				COMMENTS		
9	NA	MN	IA	(Indicate Locations on Plan Sheet)		
TO STON CONTROL S TO A MACE						
ROSION CONTROLS/DAMAGE	1		_	All perimeter ditches are working as design.		
Perimeter Ditches	,	-		Theres were no sediment traps proposed or constructed during closure manintenance.		
Sediment Traps	-					
Sediment Build-up		1		Sedimient build up are in the four 18" corrugated metal pipes inlet.		
Culvert End-Walls	1	1				
Brush/Trees/Debris		1		Theres some brush and small trees in the four 18" corrugated metal pipes inlet.		
Ponding or Wet Areas	1			There is not ponding or wet area in the units.		
Riprap	1					
Other		1	second as	Erosion in the slope east to unit 13, caused by the rain water that the channel manage.		
INAL COVER CONDITION						
Undesirable Vegetation	1			There is no woody plants observed.		
Erosion		1		The south slope of Unit 2/3 shows some erosion and in the northwest side of unit 9.		
Drainage	1	1		Good Condition		
Cracks	1	1		None Observed		
Depressions/Ponded Water	1			None Observed		
Settlement	1		1000	None Observed		
Surface Armor	1			Good Condition		
Burrows	1		Ī	None Observed		
Other	1		!			

NA, no action needed; MN, maintenance needed; IA, immediate attention needed

~					
DA	TE:	August	27.	200	1

PROTECO

INSPECTION ITEM	CONDITION			COMMENTS	
	NA	MN	IA	(Indicate Locations on Plan Sheet)	
GAS MANAGEMENT SYSTEM	J				
Condition of Gas Vents	1			Good condition.	
Other					
CAMU – LEACHATE COLLECTION SYSTEM					
Depth of Leachate	1				
Other					
BENCHMARKS					
Condition	1	ero:			
Elevation Surveyed	1			No settlement observed during the inspection.	
Other					
OTHER OBSERVATIONS					
Survey Plat	1				
Unit 9 (CAMU)					
Sediment Basin	1				
Precipitation	1			On August 27,2001 was received 4.40" of rain within 24 hour period.	

¹NA, no action needed; MN, maintenance needed; IA, immediate attention needed

DATE: August 27,2001

PROTECO

ITEM	MAINTENANCE OR REPAIRS REQUIRED	TO BE CONDUCTED BY	DATE COMPLETED	REINSPECTED DATE/INTL.
Unit 1	Good Cond.No maintenance or repairs required.	PROTECO		
Unit 2/3	Repair erosion in the south slope of the units.	PROTECO	11/9/01	(1 12 01
Unit 5	Good cond. No maintenance or repairs required.	PROTECO	5 (8)	
Unit 9	Repair small erosion in the northwest side of the uinit.	PROTECO	11/9/01	11/12/01
Unit 10/11	Good Cond No maintenance or repairs required.	PROTECO	٠	
Unit 12/16	Good Cond No maintenance or repairs required.	PROTECO		
Unit 13	Good Cond No maintenance or repairs required.	PROTECO		
Unit 17	Good Cond No maintenance or repairs required.	PROTECO		00 =
DATE OF INSPECTION:	Augest 27,2001	INSPECTOR:		- Shey
			/ (print)
				(signature)

NA, no action needed; MN, maintenance needed; IA, immediate attention needed